



FIG. 1

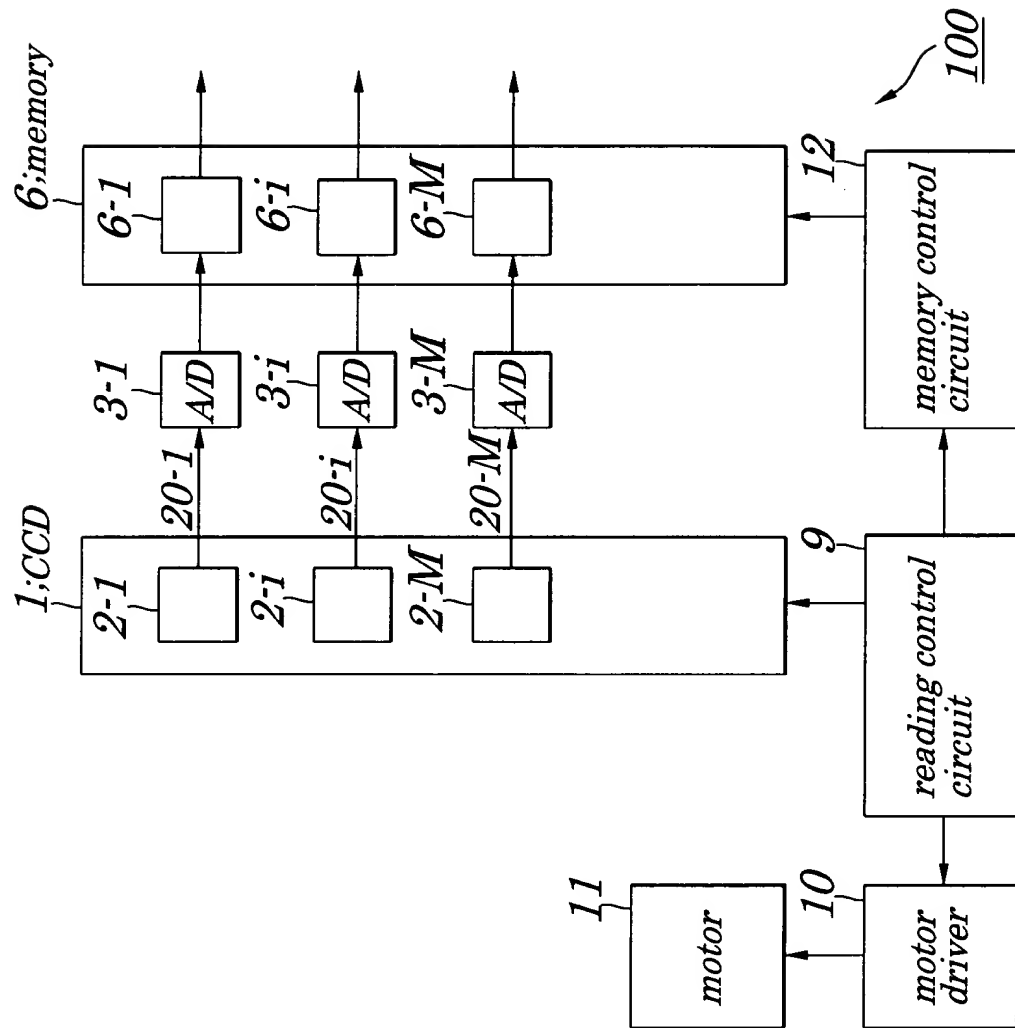
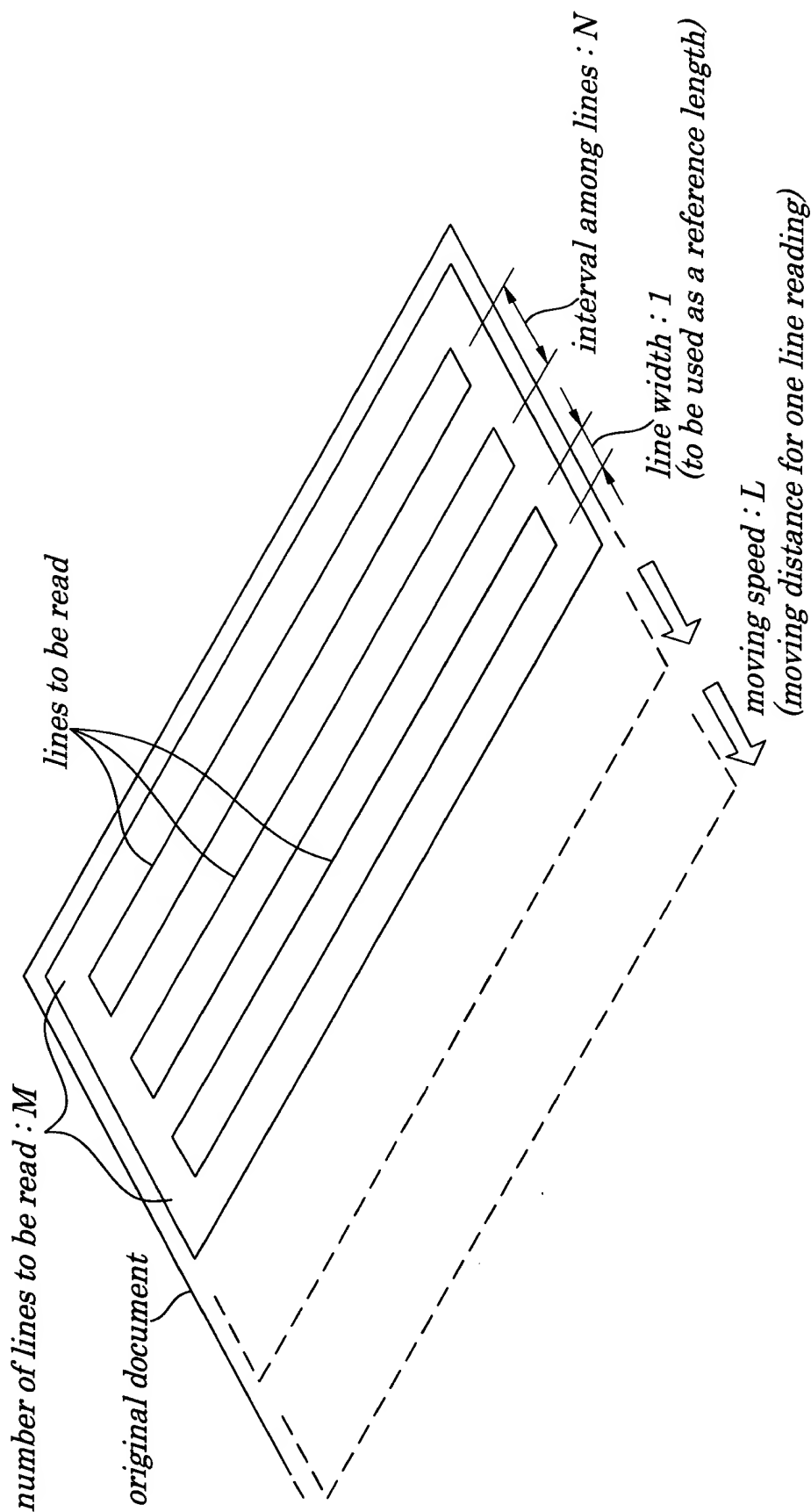




FIG.2





Title: IMAGE READING METHOD
AND APPARATUS FOR SAME
Inventor(s): Tetsuichiro
YAMAMOTO, et al.
DOCKET NO.: 045054-0142

FIG.3

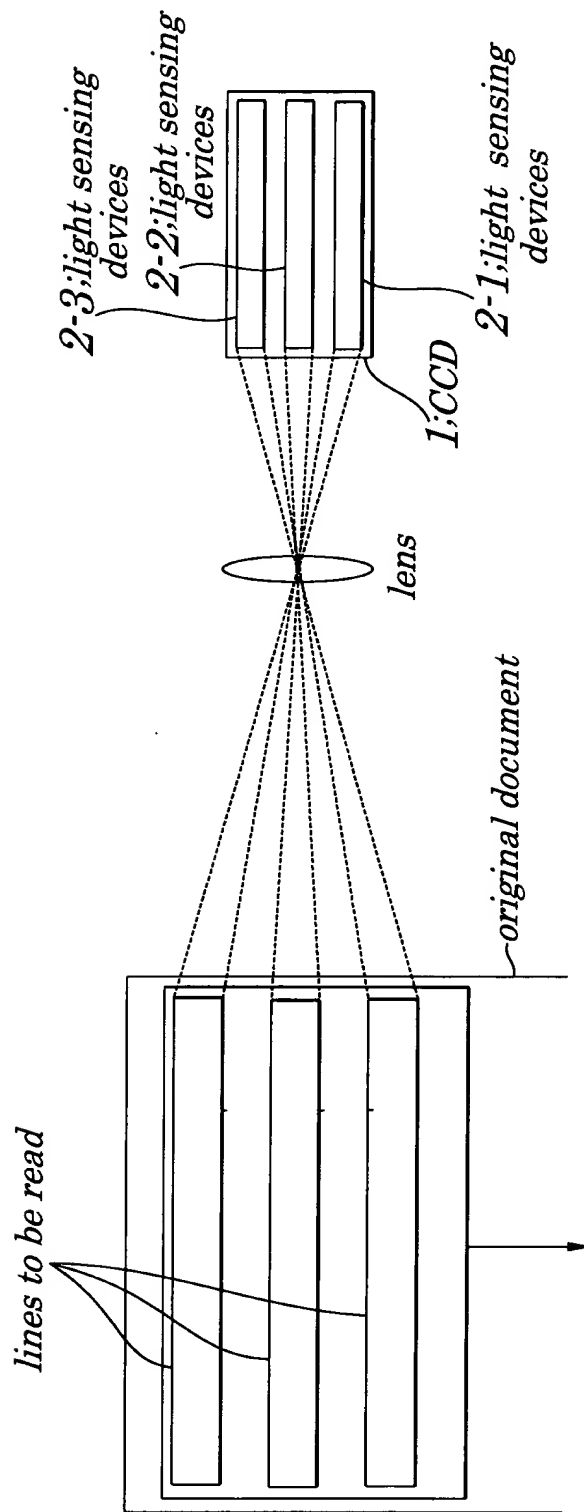




FIG.4

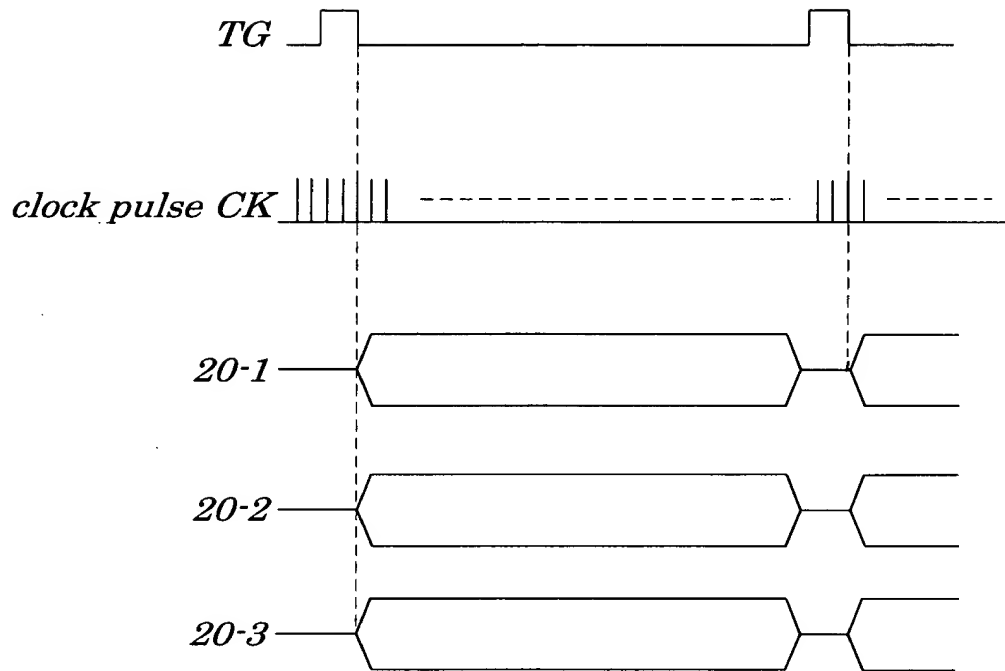


FIG.5

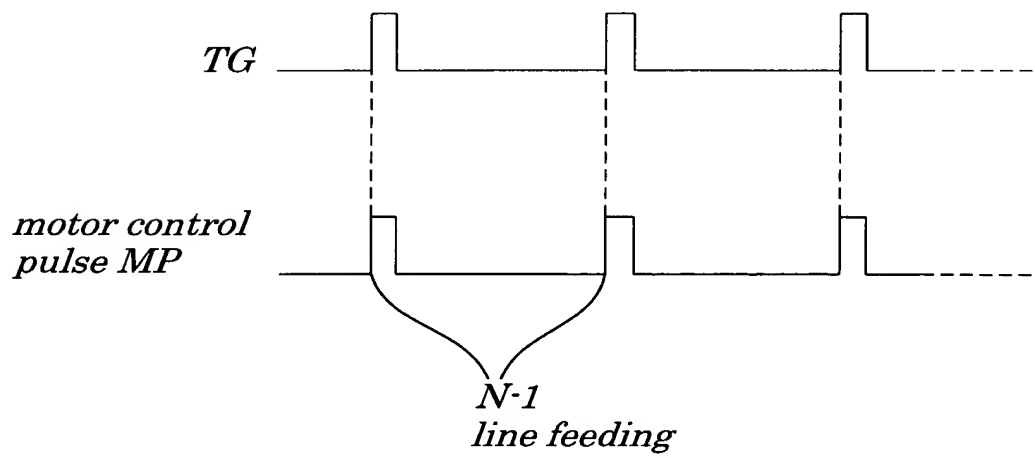


FIG. 6

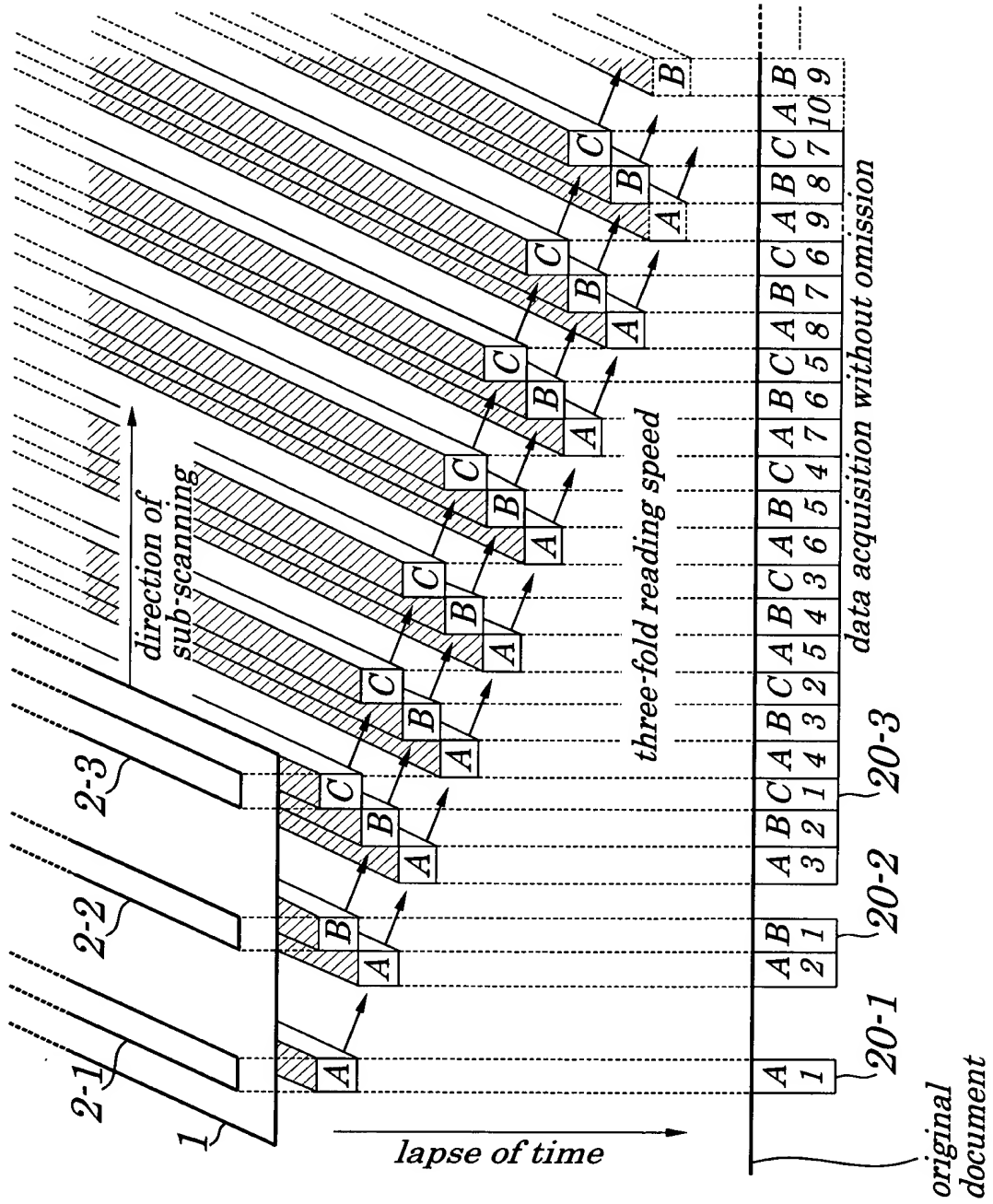


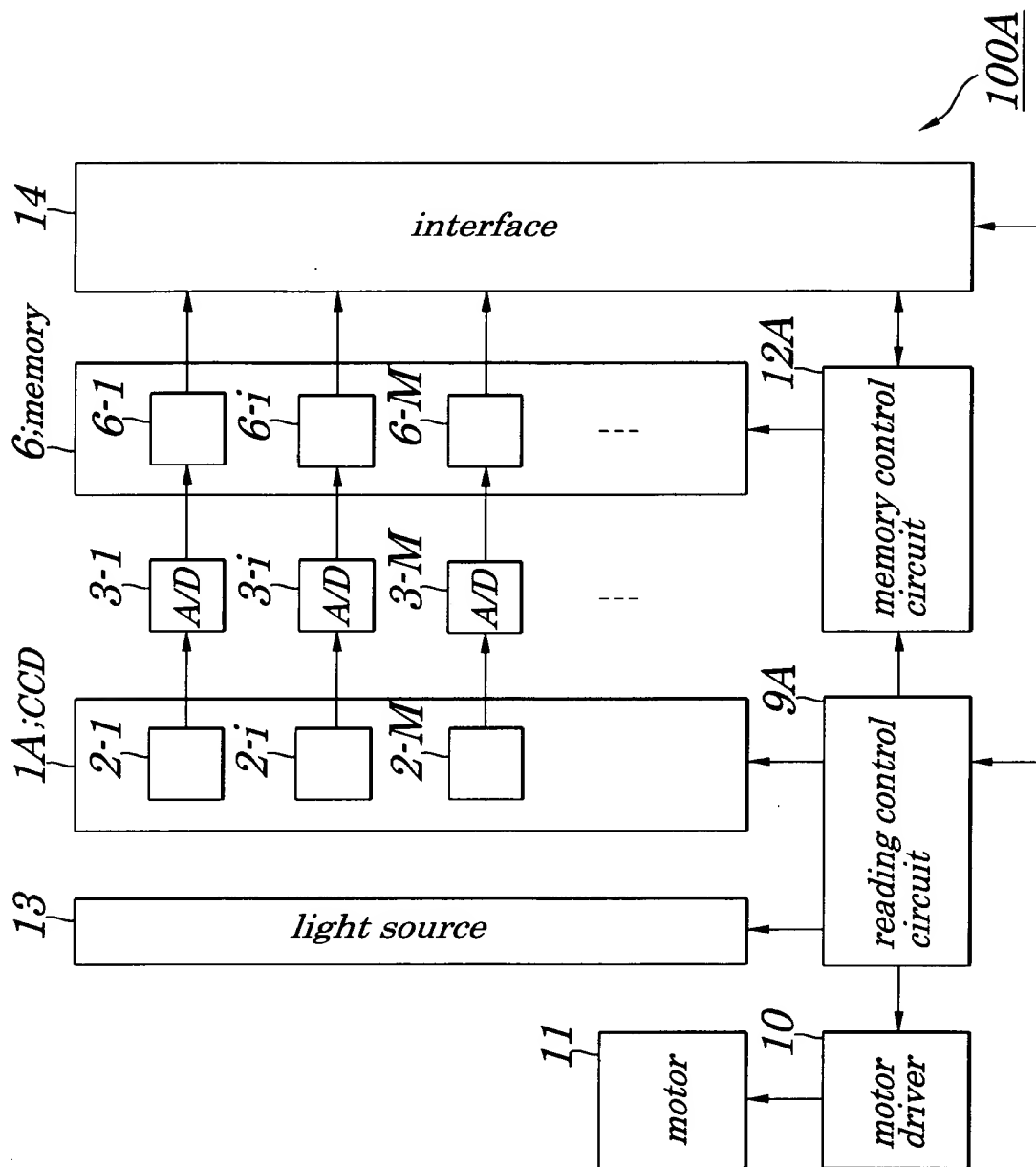


FIG. 7

		<i>interval among line-like strings of light sensing devices "N" (N being expressed by numbers of reading lines)</i>															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
<i>numbers of line-like strings of light sensing devices "M"</i>	2	×	×	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	3	×	×	×	○	○	○	○	○	○	○	○	○	○	○	○	○
	4	×	×	×	×	○	○	○	○	○	○	○	○	○	○	○	○
	5	×	×	×	×	×	○	○	○	○	○	○	○	○	○	○	○
	6	×	×	×	×	×	×	○	○	○	○	○	○	○	○	○	○
	7	×	×	×	×	×	×	×	○	○	○	○	○	○	○	○	○
	8	×	×	×	×	×	×	×	×	○	○	○	○	○	○	○	○
	9	×	×	×	×	×	×	×	×	×	○	○	○	○	○	○	○
	10	×	×	×	×	×	×	×	×	×	×	○	○	○	○	○	○



FIG. 8





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FIG.9

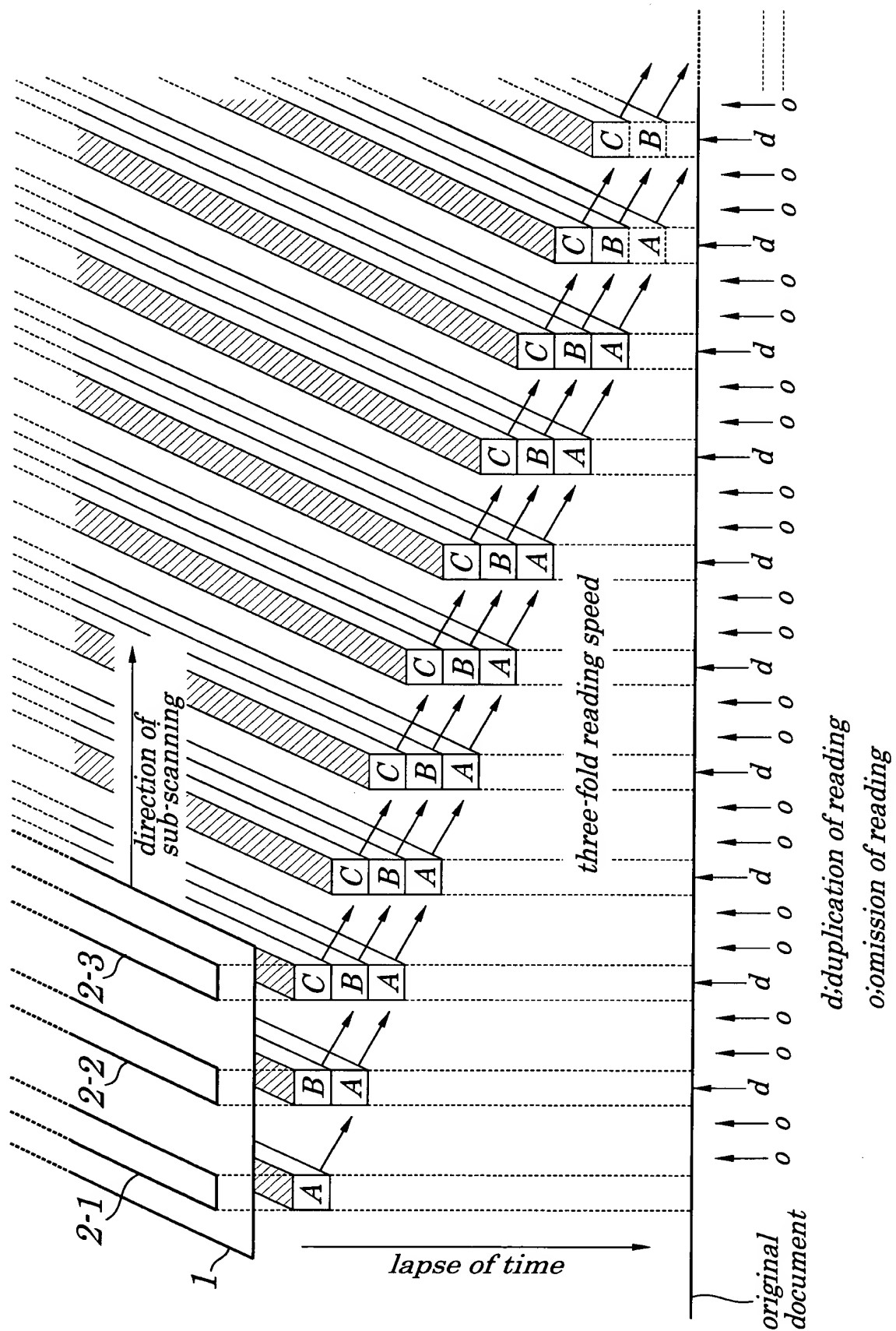


Diagram illustrating the three-fold reading speed of a document. The diagram shows a document with three parallel strips of text, labeled 1A, 2-1, 2-2, and 2-3. An arrow indicates the "direction of sub-scanning" from left to right. Below the strips, a sequence of boxes labeled A, B, and C shows the reading path. A horizontal arrow at the bottom indicates "lapse of time". To the right, a table shows the sequence of characters read, demonstrating a three-fold increase in reading speed compared to the original document.

A	B	A	C	B	A	C	B	A	C	B	A	C	B	A	C	B	A	C	B	A	C	B	A	C	
1	2	1	2	3	2	3	4	3	4	5	4	5	6	5	6	7	6	7	8	7	8	9	8	9	10

original document

three-fold reading speed

data acquisition without omission



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FIG. 11

		<i>interval among line-like strings of light sensing devices "N" (N being expressed by numbers of reading lines)</i>															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
<i>numbers of line-like strings of light sensing devices "M"</i>	2	○	×	○	×	○	×	○	×	○	×	○	×	○	×	○	×
	3	○	○	×	○	○	×	○	○	×	○	○	×	○	○	×	○
	4	○	×	○	×	○	×	○	×	○	×	○	×	○	×	○	×
	5	○	○	○	○	×	○	○	○	○	×	○	○	○	○	×	○
	6	○	×	×	×	○	×	○	×	×	×	○	×	○	×	×	×
	7	○	○	○	○	○	○	×	○	○	○	○	○	○	×	○	○
	8	○	×	○	×	○	×	○	×	○	×	○	×	○	×	○	×
	9	○	○	×	○	○	×	○	○	×	○	○	×	○	○	×	○
	10	○	×	○	×	×	×	○	×	○	×	○	×	○	×	×	×

FIG. 12

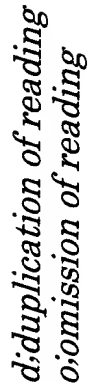




FIG. 13

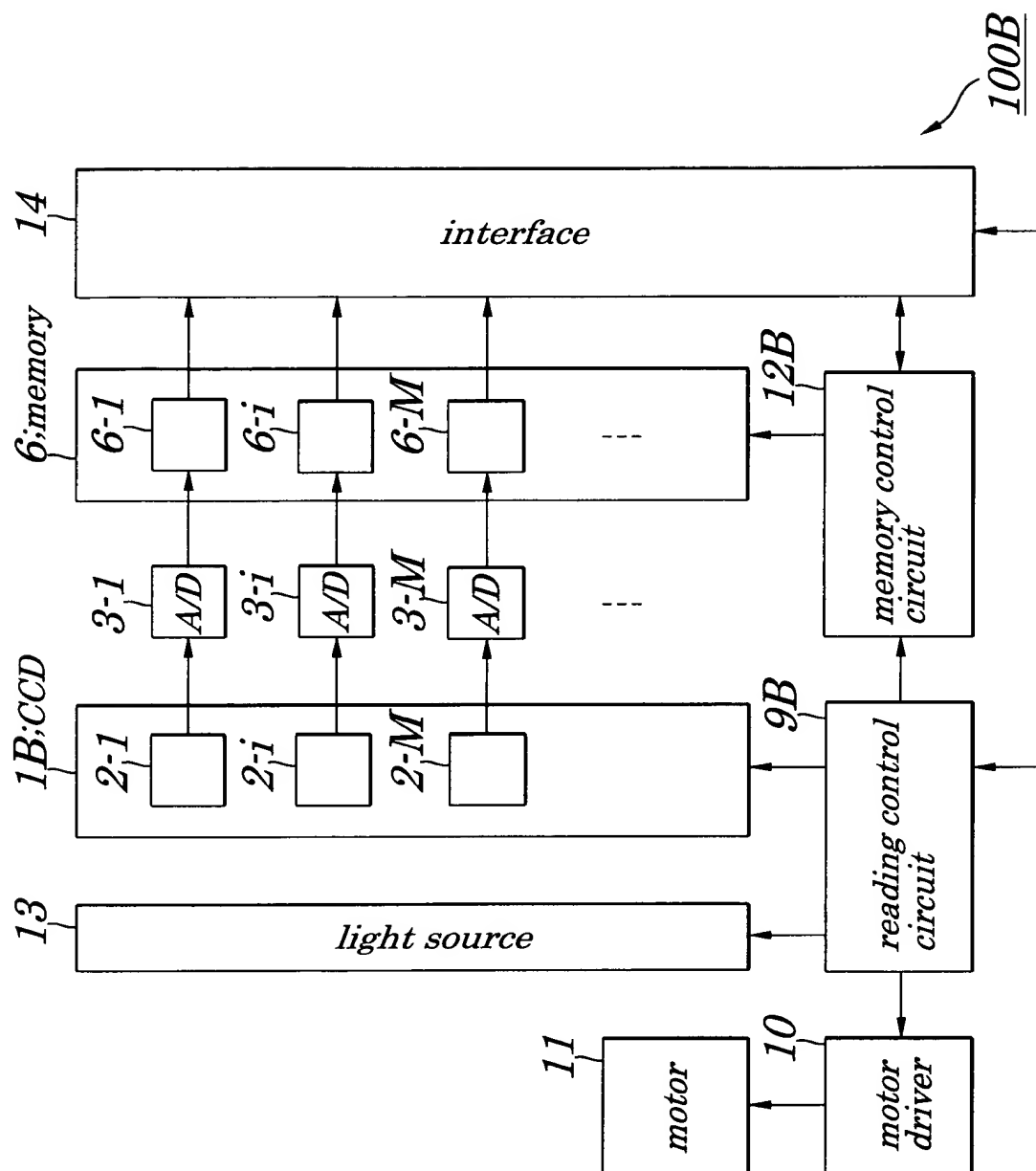
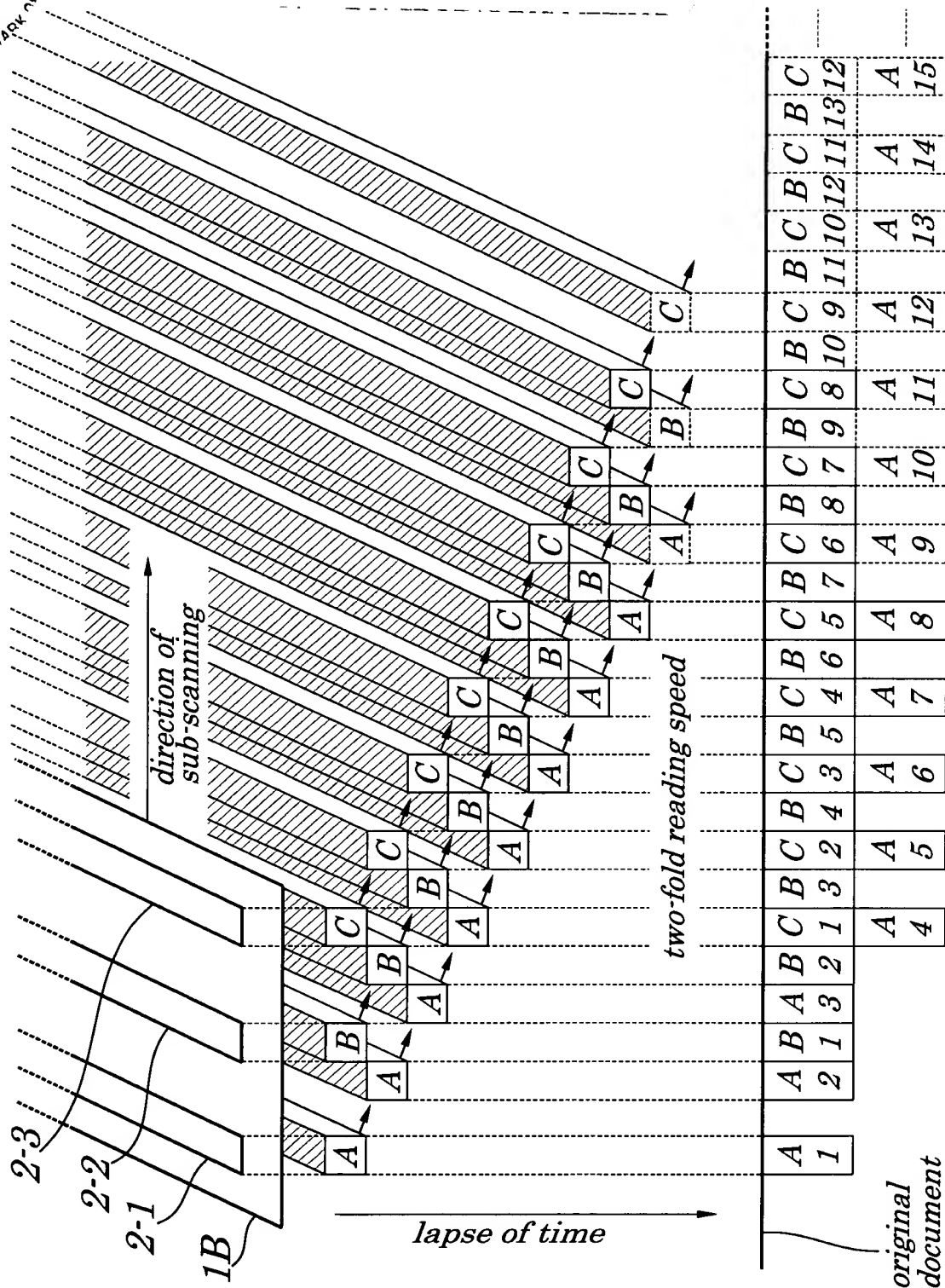




FIG. 14



There is duplication of reading, however, no omission of reading.



FIG. 15

		<i>interval among line-like strings of light sensing devices "N" (N being expressed by numbers of reading lines)</i>															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
<i>numbers of line-like strings of light sensing devices "M"</i>	2	○	×	○	×	○	×	○	×	○	×	○	×	○	×	○	×
	3	○	○	△	○	○	×	○	○	△	○	○	×	○	○	△	○
	4	○	△	○	△	○	×	○	△	○	△	○	×	○	△	○	△
	5	○	○	○	○	△	○	○	○	○	△	○	○	○	○	△	○
	6	○	△	×	△	○	△	○	△	△	△	○	△	○	△	△	△
	7	○	○	○	○	○	○	△	○	○	○	○	○	○	△	○	○
	8	○	△	○	△	○	△	○	△	○	△	○	△	○	△	○	△
	9	○	○	△	○	○	△	○	○	△	○	○	△	○	○	△	○
	10	○	△	○	△	△	△	○	△	○	△	○	△	○	△	△	△



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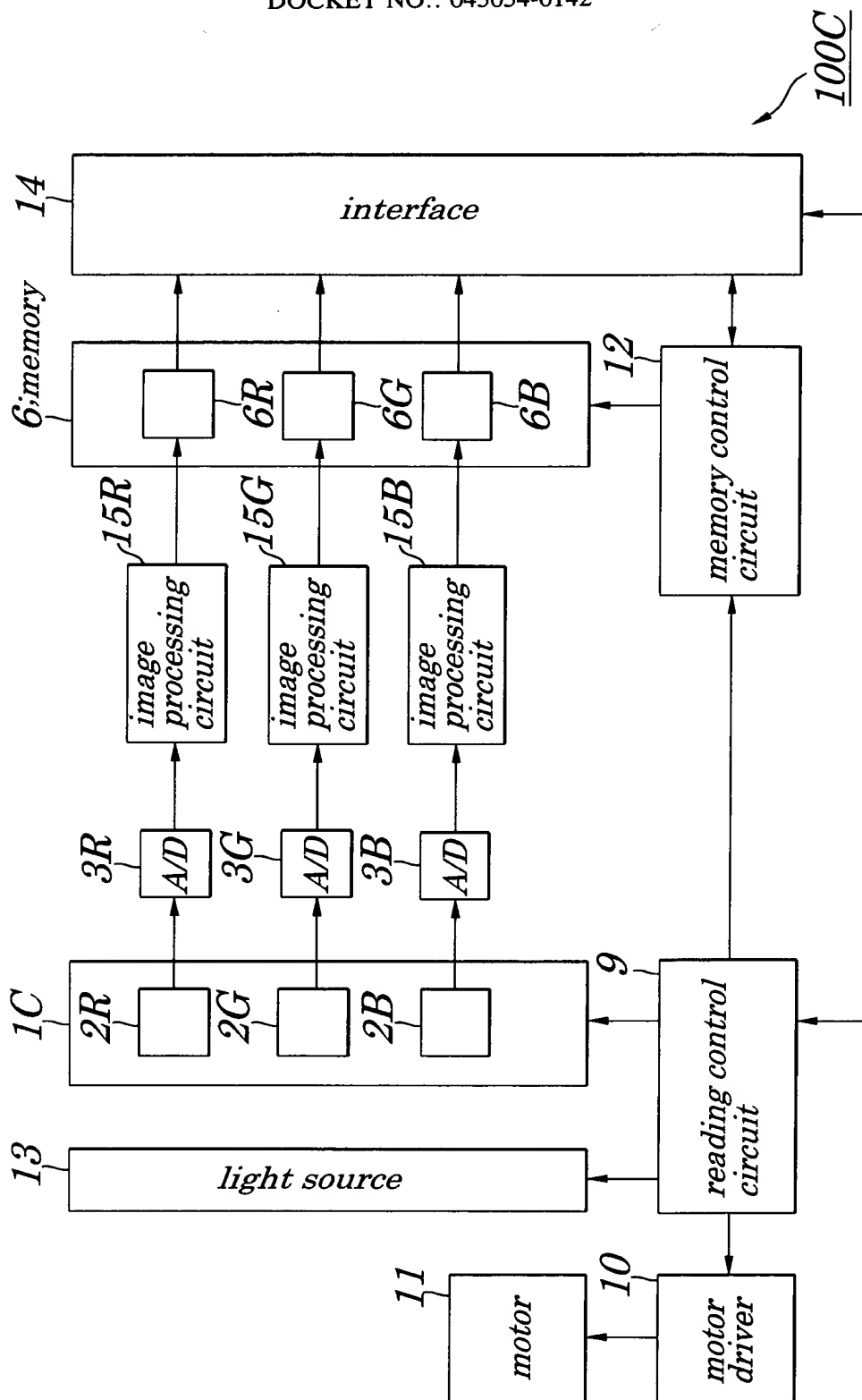


FIG.16



FIG. 17 (PRIOR ART)

